

M9725M
3.N38
v.32/3
Copy 1

SOUTH CAROLINA STATE MUSEUM

IMAGES

SUMMER 2017

VOLUME XXXII NO.3

SOUTH CAROLINA STATE MUSEUM

ECLIPSE 2017

presented by



SCSM ECLIPSE ACTIVITIES

**INTERVIEW WITH SC ASTRONAUT
CHARLES DUKE**

**TELESCOPE GALLERY:
PHASE II COMPLETION**

**ECLIPSING 50:
THE STATE ART COLLECTION**

COMMISSION

Gray T. Culbreath, Chairman
Dr. Amon A. Martin Jr., At Large
Sharon Bryant, At Large
Lou S. Nolan, District 2
Lori M. Kinley, District 3
Dr. Alexander Patrick, District 4
Col. Claude Eichelberger, District 5

IMAGES is the quarterly membership magazine for the South Carolina State Museum. All materials printed in *IMAGES* is copyrighted 2017 by the South Carolina State Museum and may not be reprinted without permission.

EDITOR

Jared D. Glover

CONTRIBUTORS

Willie Calloway, Merritt M. McNeely, Lori Kornegay,
Liz Klimek and
Matthew Whitehouse

DESIGN

Marlena C. Jones
Leigh Williams



Robert B. Ariail Telescope Gallery
Phase II completed

Thank You FOR BEING A SCSM MEMBER

For questions about your membership
call (803) 898-4937 or
email membership@scmuseum.org



Robert B. Ariail Telescope Gallery
Phase II completed

CONTENTS

Eclipse News	5
Shadows From Space	7
Interview with SC Astronaut Charles Duke	8
Eclipse Kids Activity	10
Astronomer's Corner	11
Foundation	13
Art Community: Eclipsing 50	14
Museum News	15
Calendar of Events	16
Volunteer News	18



VISIT US AT: **SCMUSEUM.ORG**



NOTES FROM OUR DIRECTOR, WILLIAM CALLOWAY

SOUTH CAROLINA STATE MUSEUM

ECLIPSE 2017

When we opened our spectacular renovation project in 2014, Windows to New Worlds, we greatly expanded our astronomy, science and space content capabilities. With the addition of the BlueCross BlueShield of South Carolina Planetarium, the Boeing Observatory and the Robert B. Airlie Collection of Historic

Astronomy, we were able to convey to visitors of all ages the fascinating stories of our universe through our planetarium shows, viewing through our 1926 Alvan Clark telescope and exploring the vintage astronomical instruments presented in our refurbished telescope gallery.

As we were finalizing our design plans and proceeding into the construction phase of the project, our Director of Education, Tom Falvey, casually mentioned, "You know, these renovations are really going to be useful when the eclipse comes through in 2017". My response was the typical, "What eclipse?"...and so our planning began many years ago for this once in a lifetime event that's happening on August 21st of this year.

All of our staff in one way or the other have been participating in committees and helping plan a weekend of activities that we believe will be the best in the city. Your State Museum is poised to offer a plethora of activities the entire weekend beginning on Friday, August 18th and culminating on the day of the eclipse, Monday the 21st.

MUSEUM ECLIPSE ACTIVITIES

Exhibit

2017 is the 45th anniversary of Apollo 16, the mission in which Lancaster native Charlie Duke became the 10th man to walk on the moon. The museum will recognize the mission with an exhibit that features items from the Duke collection. This special collection features a number of tools and instructional material used by the astronaut during the Moon mission. General Duke will be joining the museum to take part in the festivities on eclipse day.

Boeing Observatory

We provided two free eclipse education workshops to local stakeholders hosting events during the Total Eclipse Weekend. We also have been hosting free distance learning workshops with schools across the state. The live remote sessions are designed to teach students all about eclipses, and at the same time, provide teachers with the resources to carry that instruction into the classroom.

Programs

Our education staff is developing special eclipse education pop-up stations and tours tailored specifically to engage and educate the visitors in the science of the eclipse. Ten activities have been developed, including hovercraft rides, make-and-take star wheels and take-apart Galileo telescopes. Additionally, our Planetarium Manager, Liz Klimek, is developing a special Planetarium Eclipse Show, *Shadows from Space* that will be shown beginning in August.

Museum Eclipse Partners

We have been supported in this effort with many wonderful community partners who have made a number of our activities possible.

SCE&G

Our generous title sponsor is SCE&G whose eclipse sponsorship supports all on-site August eclipse related events. Funds will be used to purchase branded eclipse viewing glasses that will bear both SCE&G's logo, as well as the museum's. Eclipse glasses will be free to museum guests throughout the month of August, and will also be distributed to pre-eclipse weekend and eclipse day ticket holders.

Boeing

Boeing will support summer eclipse off-site outreach designed to educate the community about the eclipse, make Midlands residents aware of the museum and observatory and distribute solar eclipse educational material through a series of off property events this summer. Outreach eclipse partners include the South Carolina State Parks, City of Columbia and Richland County.

SCETV

South Carolina ETV has scheduled a live broadcast from the museum parking lot on the day of the eclipse. Live and prerecorded shots and video will include Rudy Mancke's look at nature's response to the eclipse and a tour of the museum's Duke exhibit and telescope galleries. The production requires a stage, multiple cameras and two trucks, one for production and another for satellite uplink.

NASA

For the museum's eclipse activities between Friday, August 18 - Monday, August 21, NASA Langley has scheduled a 50 foot trailer of hands-on exhibits for the museum. NASA education staff will be at the museum over the eclipse weekend to staff the exhibit and participate in eclipse activities in the museum.

Department of Education

With the support of Superintendent Molly Spearman, we are hosting school children from selected school districts to the museum for the day of the eclipse. These students will be from school districts in disadvantaged areas of the state whose locations are off the path of totality.

Columbia Community

The State Museum has also been leading the community eclipse effort as our Director of Marketing, Merritt McNeely, along with Tom Falvey have co-chaired a city-wide committee to ensure that Columbia, SC is ready to host this event. Not only to maximize the economic impact of the event but to help establish Columbia as a destination for many years to come. As a result of Merritt and Tom's efforts, the city is well prepared to host a variety of activities all through the month of August. Their leadership with other Midlands stakeholders such as the City of Columbia, Experience Columbia SC, One Columbia and partners like the Columbia Fireflies, Lake Murray Country helped to create many eclipse viewing events that will attract people to the Midlands area for the entire weekend.

As you can see, the State Museum is well prepared for this historic event and we invite you to visit us during this exciting summer!



SOLAR ECLIPSE WEEKEND DAY TICKETS*

General Admission for August 18, 19, & 20

GENERAL ADMISSION

Tickets for the general public:
Adults: \$15 | Children (3-12): \$12
Seniors (65 & above): \$15

MUSEUM MEMBER

Free General Admission
All add-on attractions:
Adults: \$5 | Children (3-12): \$5
Seniors (65 & above): \$5

GROUPS

Non-school groups
of 10 or more.
Adults: \$13 | Children (3-12): \$10
Seniors (65 & above): \$13

**TICKETS ON
SALE NOW!**
SCMUSEUM.ORG

* A ticket is needed for each day of Solar Eclipse
Weekend.

SCSM ECLIPSE ACTIVITIES

State Museum staff have been hard at work ironing out exciting plans for the Total Eclipse Weekend. Starting Friday, August 18 through Eclipse Day, Monday, August 21, the entire museum will be full of exciting programs, shows, exhibits and some very special guests.

While tickets for Eclipse Day, Monday, August 21, have **sold out**, there are plenty of tickets available for the three days leading up to the eclipse. The museum will be open from 10 a.m. until 10 p.m. each day.

SOLAR ECLIPSE WEEKEND TICKETS INCLUDE:

- General admission to 4 floors of permanent and changing exhibit galleries featuring South Carolina art, science & tech, natural history and cultural history.
- Astronomy and space exhibits and a special exhibit on SC Astronaut Charles Duke.
- Special eclipse education pop-up stations and tours (for a complete list of activities, see Solar Science Saturdays on page 7).
- Solar Eclipse glasses provided by SCE&G (in preparation for August 21, 2017)
- Access to a special Planetarium Eclipse Show, *Shadows from Space*
- **NEW ADDITION!** Access to an evening planetarium show featuring a live musical performance by The Lovely Few. The band will perform their original music, which is space-themed, to choreographed visuals on the planetarium dome featuring planets, constellations and an eclipse simulation.
(Sat. and Sun. 7 and 8 p.m. Only)
- Access to the Phase II completion of the Robert B. Airlie Telescope Gallery and Boeing Observatory (opened until 10 p.m. each night).
- Access to a 4D theater movie.
- Admission to the current blockbuster exhibition, *Savage Ancient Seas*.
- Special eclipse merchandise in the Cotton Mill Exchange and exclusive commemorative eclipse gifts available.



SO WHAT IS A SOLAR ECLIPSE? A solar eclipse occurs when the moon passes between the Earth and the sun, causing the moon to temporarily cast its shadow on Earth. Solar eclipses happen about twice a year and total eclipses are only visible to those located in the path of the moon's shadow as it crosses the Earth. Columbia is located close to the center of this path of totality, which is less than 70 miles wide. A total solar eclipse has not been visible from the continental United States since 1979, which has some astronomy fans referring to this event as the "Great American Eclipse."

WHY IS THIS SOLAR ECLIPSE SO IMPORTANT?

- First transcontinental total solar eclipse in 99 years; last one to cross the U.S. was in 1918.
- First total solar eclipse in the continental US since 1979, visible from only five states in the Northwest United States (38 years ago).
- Projected to be the most viewed total eclipse in history.
- The next time a total solar eclipse will be visible from the greater Columbia, S.C., area is 2078.

THE DIFFERENCE BETWEEN A PARTIAL SOLAR ECLIPSE AND A TOTAL SOLAR ECLIPSE IS MONUMENTAL:

- Few people will experience a total solar eclipse in their lifetime
- A partial solar eclipse will be visible to the entire continental U.S., but this is very different from witnessing a total solar eclipse.
- Witnessing a total eclipse is an unforgettable experience for which people travel globally.

DID YOU KNOW? Looking directly at the Sun can damage your eyes! While the 2 minutes and 36 seconds of total eclipse is viewable without glasses (in fact, one can't see the moments of total solar eclipse with the glasses on), **viewers actually need glasses before and after totality.**

The museum will provide eclipse viewing glasses to guests over the Eclipse Weekend. Glasses will be distributed when you check-in and will also be available throughout the day.



CHECK THIS OUT! Trees make great pinhole projectors. Layers of leaves and branches tend to create thousands of little pinholes allowing sunlight to pass through to the ground. On a sunny day you'll notice thousands of circles of light projected onto the ground beneath the trees around you. During the partial phases of an eclipse, those projected circles of light actually turn into thousands of projected images of the eclipse. Keep your camera ready!

ECLIPSE DAY AT THE MUSEUM

If you will be with us on Eclipse Day*, here is some important information to consider as you plan your day with us.

Museum Parking Lot Opens: 7 a.m.

Museum Opens: 10 a.m.

Partial Eclipse Begins: 1:13 p.m.

Eclipse Totality: 2:41 p.m.

Partial Eclipse Ends: 4:06 p.m.

Museum Closes: 10 p.m.

For a more info please visit
SCMUSEUM.ORG

* Tickets for Eclipse Day are sold out.

Thank you to our presenting sponsor.



Putting our
energy to work
for South Carolina's **future**.



DEDICATED to a Better South Carolina



SHADOWS FROM SPACE PLANETARIUM SHOW



Shadows From Space is a special 15-minute program produced by the State Museum's planetarium staff specifically for the upcoming total solar eclipse. This show seeks to focus on the eclipse experience. Why is this particular eclipse a big deal? What can people expect to see? How will this celestial event affect and impact our community? To help address these questions, we'll simulate the eclipse itself, take a look at what it might look like from space, and ride alongside the moon's shadow as it glides over South Carolina.

The show will run throughout the month of August as part of the museum's eclipse activities, sponsored by SCE&G. Stay tuned for specific show times to be announced later this summer!

SOLAR SCIENCE SATURDAYS THIS AUGUST

Every Saturday in August the museum will be full of Solar Eclipse related activities for kids.

FEATURING

- Hovercraft Rides
- Rocket Launching
- Creating Pinhole Projectors
- Discovering the Solar Spectrum with UV beads and spectroscopes
- Angular Momentum experience
- Understand how the eclipse happens with eclipse models
- Learn how telescopes work with Galileoscopes

SCE&G Solar Science Saturdays are free with museum general admission or membership. Saturday activities will also take place during the Total Solar Eclipse weekend and are included with ticket purchase. Visit scmuseum.org to purchase your tickets for Solar Science Saturdays!

BEYOND TOTALITY 7 P.M. - 8 P.M.



The Lovely Few will perform live in the planetarium to choreographed visuals of planets, constellations, and an eclipse simulation.

Saturday, August 19, and Sunday, August 20, 2017.
See page 5 for more Solar Eclipse Weekend details.

The Lovely Few is an electronic folk pop band based in Columbia, SC. Frontman Mike Mewborne formed the band in 2006. Its rotating cast of musicians play keyboards, trumpets, and guitars over Mewborne's whispered vocals and electronic samples and beats.

FOR TICKETS AND SCHEDULES FOR ALL EVENTS VISIT: SCMUSEUM.ORG



CHARLES DUKE

Interview with a South Carolina Astronaut



Charles Duke photo credit: NASA

On Monday, August 21, the State Museum will welcome South Carolina native and Astronaut Gen. Charles Duke. One of the youngest to do so, Gen. Duke was one of only 12 men to ever walk on the Moon. In preparation we sent Gen. Duke some questions to learn more about his life as an astronaut and to find out what he's been up to since leaving NASA.

When did you first realize you wanted to be an astronaut?

When I graduated from the Naval Academy in 1957, there wasn't a space program or any astronauts. So I went to Germany in 1959 and was there when Yuri Gagarin and Alan Shepard went up as the first human beings in space.

I returned from Germany in 1962 and went to MIT to get a master's degree. My second year there I was working on the Apollo guidance and navigation system and met a number of the astronauts that were there monitoring the development of that system. They were so excited and enthusiastic about their careers as astronauts, I asked them how I could become one.

After MIT, I went to test pilot school and graduated in 1965. I knew then that the best job you could have as a test pilot was an astronaut.

What was the purpose of your mission to the moon?

Our mission was the first and only mission to the lunar highlands to survey and sample this unique part of the moon. Our landing site was probably one of the highest

in elevation. It would be like landing in the Rocky Mountains if we landed in the US.

What went through your mind when you took your first step on the moon?

A lot of emotions. We were late landing, and so late getting out for that first moon walk. When I stepped on the surface, one of the overwhelming thoughts was, I'm really here. I'm finally on the moon. Two years of training had paid off and here I am.

Along with that was wonder, awe; overcome with the beauty of the moon, the desolation. As Buzz Aldrin called it, "magnificent desolation." It was a beautiful place, gray in color. Very rough terrain. It was just a tremendous, exciting feeling and an emotional one.

Were you ever afraid?

We had been there [on the moon] almost 70 hours, we were finishing up our closeout on the last moon walk. John Young, my commander and I, decided we would do the moon Olympics.

We were doing the high jump, and when I jumped, I straightened up and my center of gravity went backwards due to the big backpack that I had on and I started falling over backwards. The backpack was not designed for high impact on the moon. It had a fiberglass cover that contained all the oxygen, regulators and electrical systems so if it broke, you were dead. Fortunately, I was able to scramble and land on my right side. My heart was pounding, but I realized I was okay.

**"From the moon, it seemed like you
could hold out your arm and cover
the earth with your hand.
It was beautiful!"**

What was it like looking back at earth from the moon?

Where we were on the moon the Earth was directly overhead. If you look up in your Apollo spacesuit, you see the top of your helmet, so it wasn't very visible while we stood on the moon.

In the two days while we were in orbit, we would have Earth rise and it was a spectacular sight. From the moon, it seemed like you could hold out your arm and cover the earth with your hand. It was beautiful! You could see the polar ice caps, pure white, you could see the white clouds; an occasional hint of brown, which



was land and the blue of the ocean. That jewel of blue, white and brown was suspended in the blackness of space ... just a beautiful sight.

What are you looking forward to doing when you visit South Carolina for the Total Solar Eclipse this August?

I look forward to being back at the museum. I had helped lobby for the expansion [Windows to New Worlds] of the museum, so I look forward to seeing the completion. Also to meet and see a lot of old friends and taking part in all the activities in the State Museum.

Have you experienced a solar eclipse before? What was it like for you?

I have not. I'm really looking forward to experiencing this eclipse. Hopefully we'll have a good show.

What's it like to know that you've literally left a foot print in history?

Well to be honest, when we applied to be in the space program and got involved in Apollo, it wasn't to leave a foot print in history. I volunteered for the love of exploration, the love of flight, the adventure of space flight. I was fortunate enough to be selected to be one of the 12 men, to this date, to have walked on the moon. So it was a great honor and a great privilege to serve my country as a military officer and also as an astronaut. I was really humbled that I got selected to an incredible mission. So I give credit to those footprints to mission control and also to the hundreds of thousands that worked on the mission, to make it possible that we would get such an adventure.

What have you been up to since your stellar career with NASA?

I left NASA in 1976. I decided to go into new ventures. We moved to San Antonio, TX. My primary work was in distribution in the San Antonio area, after two years I sold that business and since then have been involved in various businesses and investing in software companies. For the last 10 years, I've been a motivational speaker, traveling all over the world. Also, in 1978 my wife and I began a Christian ministry. We share our testimony about what God has done in our lives. We spend 20 to 30 percent of our time in Christian ministry which we enjoy a lot and find it very fruitful.

"... I give credit to those footprints to mission control and also to the hundreds of thousands that worked on the mission, to make it possible that we would get such an adventure."

What would you say to young boys and girls that are reading this magazine and thinking of following in your footsteps with a career at NASA?

First off, get a good education. Take tough courses in school. Take care of yourself and work as hard as you can in school. Physically you have to have a healthy body to be an astronaut, so stay in shape and don't get involved in drugs or alcohol. Stay focused on your career and it's important that you select a course of study that you enjoy. If you never get selected to be an astronaut after doing that, you have a career that you will enjoy. If you have an idea to be astronaut, press on, keep focused and God speed.

You can learn more about the life of Gen. Charles Duke and his mission to the moon in a special exhibit opening July 29 at the State Museum. You can also visit his website at Charlieduke.com



Photo credit: NASA



AstroKids CORNER

Visit scmuseum.org to learn how to become an AstroKid!

For more eclipse activities like this one, check out The Big Eclipse Activity Book available in the Cotton Mill Exchange or at orbitoregon.org. (See pg. 10 for details).

Rocket Crossword

DOWN

1 Eclipse phase where the Moon completely blocks the Sun's light.

ACROSS

1 The ____ blocks the light of the Sun during a solar eclipse.

2 The Sun is not a planet, it's a ____.

3 Just before an eclipse, birds become ____.

4 During a solar eclipse, you must protect your ____.

How does the Moon cut the Sun's hair?

Why didn't the sun go to college?
Because he already had a million degrees!

Eclipse it!

Answers on page 11



ECLIPSES HAVE A FUNNY WAY OF MESSING WITH YOUR HEAD

Matthew Whitehouse, Observatory Manager



Total solar eclipse over the coast of Queensland, Australia, 14 November 2012. Image: Alex Cherney/terraastro.com.

3 a.m., Wednesday, November 14, 2012, Trinity Beach, just north of Cairns, Queensland, Australia. Our group of astronomers and fellow students led by one of my graduate school advisers awakens in a seaside apartment complex to prepare for the morning's total solar eclipse. We were there filming footage for a documentary featuring our astronomer colleagues and their eclipse research. After a quick breakfast, I stepped outside onto the apartment's terrace in the predawn darkness and saw that the sky was clear and star-filled. It was from this terrace, overlooking the Pacific Ocean, that we would observe the eclipse's grand spectacle. Unlike our afternoon eclipse in Columbia this August, this eclipse over far north Queensland began just as the Sun was rising, with totality at a bright and early 6:39 a.m. As I noted with excitement the clear skies, one of the astronomers in our group quipped "eclipses have a funny way of messing with your head." A line I will never forget, spoken by a veteran eclipse chaser.

I had arrived in Cairns the Sunday before. All week, we watched eclipse fever take over this small city sandwiched between the Queensland coast and rainforest-covered hills. Eclipse chasers and scientists from all over the world were converging on Cairns and the excitement in the air was palpable. But there was one problem, one thing everyone was talking about: the weather. November on the tropical north Queensland coast is the beginning of the summer wet season. Although there were a few odd sunny spells, every day seemed to be dominated by clouds, rain, and wind. The weather forecast for the entire week was dismal. A newspaper headline trumpeted in a giant-sized font "TENSE WAIT ON ECLIPSE WEATHER." I had traveled 8,000 miles and braved the 14-hour flight from the US West Coast to Australia, and we're going to get skunked by the weather?

As morning twilight began, we went out onto the seaside terrace, with the rhythmic sound of ocean waves providing a suitably mysterious soundtrack. As the Sun rose and

the eclipse got underway, clouds began to move in. Even with the clouds, we were able to use eclipse glasses to see much of the eclipse's partial phases. But as totality neared, the clouds began to thicken. Clouds began to pass directly over the Sun, limiting our view to sporadic 30-second windows. Still, the celestial drama unfolded in spectacular fashion. About a minute before totality, the clouds completely covered the Sun. Then, the shadow of the Moon swept in with breathtaking speed, plunging us into a darkness far more eerie than morning twilight just an hour before. As totality began, the clouds parted, giving us a brief window to view the truly awe-inspiring sight of the fully eclipsed Sun. Before totality ended, the clouds moved back in ... but even with the less than ideal weather, the eclipse was incredible. After the eclipse, I took a long walk on the beach to reflect on the awesome natural wonder I had just seen.

It has been a joy sharing my firsthand experience in Australia as we engage and train our guests, students, teachers, and community leaders in preparation for our solar eclipse here in South Carolina this August. With the eclipse almost upon us, I think my astronomer colleague's comment about eclipses having a funny way of messing with your head is a good one to keep in mind. Unless you've experienced a total solar eclipse directly, there's literally no way to have any concept of the spectacle that awaits. A total solar eclipse is a roller coaster of sights and sounds, and there is this weird sensation of feeling totally out of control. Even with our modern scientific knowledge of eclipses, experiencing one creates a sense of profound awe and even a little bit of fear. One can easily see how total solar eclipses were considered to be terrifying events in the past.

And now, with the Great American Eclipse of August 21, 2017 just a few weeks away, I encourage you all to get ready for this awesome experience. Plan to see the eclipse with friends and family. Make sure you have eclipse glasses ready; be sure to wear them during the partial phases and remove them during totality. And when totality happens, put away your cameras and smartphones and just watch as the celestial drama unfolds all around you.

And remember: eclipses have a funny way of messing with your head!

ASTROKIDS CORNER ANSWER ROCKET CROSSWORD KEY (puzzle on page 10)



I bet you got them all right!



NEW IN THE Cotton Mill EXCHANGE



"The Vista" 18"x24" Print by Chris Lambries (Gilbert, SC)
\$18.00 (ea.) members
\$20.00 (ea.) non-member



**Star Wars Darth Vader
 Lego Set: 160 pcs**
\$26.96 (ea.) members
\$29.95 (ea.) non-member

**Star Wars Captain Phasma
 Lego Set: 82 pcs**
\$22.46 (ea.) members
\$24.95 (ea.) non-member



Solar Eclipse Earrings
\$25.20 (ea.) members
\$28.00 (ea.) non-member

Solar Eclipse Glasses
\$13.46 (ea.) members
\$14.95 (ea.) non-member



(safe high definition viewing, scratch-resistant lenses, protective pouch included)

Official 2017 Eclipse T-Shirt
\$19.80 (ea.) members
\$22.00 (ea.) non-member



**The Big Eclipse
 Story Book**
\$12.56 (ea.) members
\$13.95 (ea.) non-member
 *Includes eclipse viewers



**The Big Eclipse
 Activity Book: Ages 5-11**
\$5.36 (ea.) members
\$5.95 (ea.) non-member

SCE&G Steps up to the Plate to Impact Thousands at the SCSM This Summer

"We were pleased to learn about the State Museum's plans to make the most of the eclipse by creating an educational opportunity. We feel the museum's eclipse plans pair well with SCE&G's focus on supporting STEM education, and we're proud to be a part of the education that the museum will provide during this once-in-a-lifetime event." – Ginny Jones, SCANA Corporation

By now you have read all about the jam-packed month of August the museum has planned – reaching beyond our normal entertaining

**"We feel the museum's
eclipse plans pair well
with SCE&G's focus
on supporting STEM
education..."**

and educational limits – to provide a once-in-a-lifetime experience for the Total Eclipse. The museum and its staff are only able to do such amazing work because of the generous sponsorship of SCE&G. They were quick to come onboard with us when they heard we had

declared ourselves the headquarters for the midlands and have been really excited to be a part of this monumental event.

From SCE&G's Solar Science Saturdays to every pair of glasses emblazoned with their logo, the Guests here at the museum during the month of August, will know how dedicated they are as a company to providing these exciting experiences for people of the midlands – and tourists traveling from far away.

We are so grateful for their support. This isn't the first time they have worked with us, but the Eclipse campaign is certainly one of the biggest ways they have shown us and our Guests what an outstanding company they are.

As you're having an excellent time at the museum during the month of August, be sure to thank SCE&G for bringing these opportunities to you!

Karen Hall
Donor Relations Manager



SCSM FOUNDATION BOARD OF DIRECTORS

James Suddeth, Board Chair &
Executive Committee Chair

Dedee Rowe, Board Chair-Elect

Ned Nicholson, Past Board Chair

Bill Quattlebaum, Treasurer

Kristy Ellenberg, Secretary

Ann Oliver, Audit Committee Chair

Jan Shackelford, Public Relations
Committee Co-Chair

Ann Holtschlag, Public Relations
Committee Co-Chair

Frank Cox, Investments Committee

Gray Culbreath, State Museum
Commission Chair, Ex-Officio

William P. Calloway, State Museum
Executive Director, Ex-Officio

Kara Sproles Addy

Roger Blau

Rita Caughman

Dawn Corley

Julian Gibbons

Rev. Dr. Solomon Jackson

Ginny Jones

Kathy McKinney

Lenora Price

Robert Quell

Prema Samhat

Al Saad

Rodger Stroup

• • • •

Foundation Staff
Karen Hall
Donor Relations Manager

Jordan Smith-Burch
Foundation Assistant

VISIT SCMUSEUM.ORG FOR ECLIPSE EVENTS AND SCHEDULES



ECLIPSING 50

The State Art Collection 1967-2017

Lori Kornegy, Curator of Art

OPENS SEPTEMBER 15, 2017

Eclipsing 50, highlights art work collected between 1967 and 2017 by the South Carolina Arts Commission and is a part of the organization's 50th anniversary celebration. As one of the Arts Commission's first programs supporting the work of South Carolina visual artists, the State Art Collection was established in the year of the agency's founding, 1967, and now includes 493 works in a variety of styles, media and disciplines from 287 artists. We decided to name this exhibit *Eclipsing 50* because it falls during the year of the total solar eclipse.

This exhibition focuses on work that captures the spirit of dynamism in the collection, as it has evolved over the years into a unique cultural document of South Carolina's changing art landscape. Including over 75 pieces from five decades and organized chronologically, the exhibition delves into the idea of artistic exploration and SC artists who challenged themselves to create original work. These artists pushed the boundaries of tradition, explored innovative techniques, examined topical issues, investigated possibilities of form and expanded notions of narrative, all while searching for new horizons in their work.

Curating *Eclipsing 50* has been a fun homecoming of sorts for me, as I worked with this collection earlier in my career as the Assistant Visual Arts Coordinator at the Arts Commission. Diving back into this group of work is like reacquainting with old friends, while also meeting fresh faces. After living out of the state for a while, it's also fascinating to track the development of South Carolina's visual culture over 50 years – the collection is a unique window into our collective, southern psyche.

Eclipsing 50 not only looks back through 50 years of collecting, but also focuses on the art that transcends a particular time and place, and the artists who pushed beyond their respective eras in the universal pursuit of artistic expression.

***Eclipsing 50* Opening Reception Thursday, September 14, 7-9 p.m.**

The *Eclipsing 50* opening reception will be on Thursday, September 14 from 7-9pm. State Museum Members please RSVP to Jordan.Smithburch@scmuseum.org if you plan to attend. This event will also be the opening reception for *No Time Like the Future*, the South Carolina Arts Commission's Statewide Arts Conference held at the museum September 14-15. Visit the Arts Commission's website, www.southcarolinaarts.com, for more information about the conference.



Mike Williams
Revolution, 1997
acrylic
80" x 90"



Jorge Otero *Alley Guanajuato, Mexico*, 1988
c-type print
9" x 9"



Mary Jackson
Two Lips, 1984, bulrush sweetgrass, pine needles & palmetto
16" x 19" x 19"



James Busby
Heartbeat 2014
mixed media
24" x 29"



Larry Jordan
Vase of the New Moon, 1983
black stoneware
9 3/4" x 13" x 13"

SOUTH CAROLINA **arts** COMMISSION



This project is funded in part by the South Carolina Arts Commission which receives support from the National Endowment for the Arts.

SUPERGROOVALISTICPROSIFUNKSTACATION

Experience the Funk at the South Carolina State Museum!

NOW OPEN

What do science, art, and imagination all have in common? They are drawn from our inner funkiness. In a new exhibition, *Supergroovalisticprosifunkstacation*, super funky objects and groovy images of the legendary music group Parliament Funkadelic are on display. The group of “extraterrestrial brothers and sisters” made an indelible mark on culture through their funk-driven sound. Their funktastic look presented a mesmerizing vision of the future. Their music brought together Motown roots with guitar-heavy rock and inspiration from precision groove master and South Carolinian James Brown. The original line-up included bass-singer Raymond “Stingray” Davis of Sumter, SC, who “bow, wow, wow, yippee yow yippee yay-ed’ through the song Atomic Dog.

The exhibition displays several posters and memorabilia of P-Funk at its height during the 1970s, many from collector and P-funk archivist, Tim Kinley. At a time where there were few minorities depicted in space, P-Funk inspired a generation to turn their eyes to the sky and imagine all the possibilities. Their message was “unity through funk” with a call to follow your dreams.

So just what is Supergroovalisticprosifunkstacation? The official definition is “the end effects of p-funk, taking funk to its highest level.”

Stop in the Community Gallery (second floor near the planetarium) to achieve your own

SUPERGROOVALISTICPROSIFUNKSTACATION.



Tim Kinley, P-Funk collector and archivist, with George Clinton of Parliament Funkadelic. Mr. Kinley loaned some of his vast collection to the museum for the exhibition



Parliament-Funk in 1978. Promotional photo by Brune Talamon.



The legendary Mothership, used in P-Funk live shows, is on display at the Smithsonian National Museum of African American History and Culture.

CALENDAR OF EVENTS

WE'RE OPEN LATE ON TUESDAYS! NOW UNTIL 10 P.M.

Friday Night Laser Lights Summer Edition July 28 & August 25 | 7 - 10 p.m.

Don't miss Friday Night Laser Lights this summer! Experience a dazzling full-color and totally immersive full-dome laser show set to some of your favorite music, like the Beatles, Aerosmith and Pink Floyd. Shows start at 8, 9 and 10 p.m. Event will feature local food trucks as well as wine, beer and non-alcoholic beverages for purchase. One show: \$10 general public / \$8 museum members. Two Shows: \$15 general public / \$12 museum members. Visit scmuseum.org to purchase tickets.

First Citizens First Sunday Sunday, August 6 | 12-5 p.m.

General admission to the South Carolina State Museum is only \$1 for guests on First Citizens First Sunday! Included in general admission, guests can explore four floors of permanent and changing exhibits. Blockbuster exhibit admission, Planetarium and 4D Theater shows are an additional price.



Toy Soldier Day Saturday, August 12 | 10 a.m.-4 p.m.

Discover exquisitely detailed military miniature figures or the little plastic G.I. Joes from your childhood, they will all be on display at the Southeastern Toy Soldier Show. See, buy, or trade toy soldiers or other military miniatures from various periods of history and enjoy special museum programs presented during the day.



Sensory Friendly Day August 14 | September 11 | October 9

Sensory Friendly Day is a special day at the museum for children and families with special needs. Visitors will be able to enjoy a less crowded environment, a designated sensory room, light and sound reduction when possible.

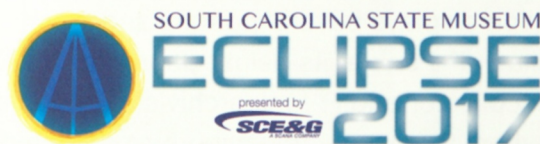
Sensory Friendly Day activities are open to the general public and groups. Museum general admission on this day is free for children, students and one adult.

Solar Science Saturdays August 5, 12, 19 & 26th

Every Saturday in August the museum will be full of solar eclipse related educational activities like creating pinhole projectors, learning how telescopes work and hovercraft rides. SCE&G Solar Science Saturdays are free with museum general admission. See page 7 for details.

Pre-Eclipse Weekend at the State Museum Friday, Aug. 18 – Sunday, Aug. 20 Sponsored by SCE&G

The South Carolina State Museum will be hosting a weekend-long celebration of Solar Eclipse activities, exhibitions and shows. Visit scmuseum.org to purchase tickets. See page 4 for details.



Solar Eclipse Day at the State Museum Monday, August 21 Sponsored by SCE&G (currently sold out)

On August 21, 2017 Columbia, SC will be one of the best places to witness the Solar Eclipse of 2017. Join the State Museum for a unique eclipse viewing experience featuring a special appearance by Apollo 16 astronaut, Gen. Charles Duke. See page 5 for details.

Bluegrass Night at 2nd Shift Twosday Tuesday, July 25, August 29, September 26

Guests are invited to bring acoustic stringed instruments to jam with members of the SC Bluegrass and Traditional Music Association. The entire museum is always open late every Tuesday night.



Events are included with your museum membership or general admission unless otherwise noted. Dates and times are subject to change. Please visit scmuseum.org for a full schedule and tickets.

Hispanic Festival

Sunday, September 10 | Noon - 4 p.m.

Celebrate Latin culture at the South Carolina State Museum with food, art, music and dance. More details will soon be available at scmuseum.org

Eclipsing 50 Opening Reception

Thursday, September 14, 7-9 p.m.

The *Eclipsing 50* opening reception will be on Thursday, September 14 from 7-9pm. State Museum Members please RSVP to jordan.smithburch@scmuseum.org if you plan to attend. This event will also be the opening reception for *No Time Like the Future*, the South Carolina Arts Commission's Statewide Arts Conference held at the museum September 14-15. Visit the Arts Commission's website, www.southcarolinaarts.com, for more information about the conference. **See page 14 for details.**

Museum of Oz Opens

Saturday, September 30

It's back! The State Museum will once again transform into the Museum of Oz

full of exciting events for the entire family. All of your Oz favorites like *The Wizard of Oz 4-D Experience*, the giant witches legs, the winding yellow brick road leading to a magical haunted forest will be returning. This October will be exploding with new Oz magic along with Saturdays in Oz, Tin Man Trivia, Museum Ghost Tours and special planetarium shows. Special expanded OZ experience.



2nd Shift Twosdays

The South Carolina State Museum is open late every Tuesday for Second Shift Twosdays. Guests can explore the evening sky in the observatory, catch *The Lego® Movie™ 4D Experience®* in the 4D theater, and experience some of your favorite

tunes choreographed to a spectacular laser show in the planetarium. General admission is two for \$10 starting at 5 p.m.

DAILY PLANETARIUM & 4D THEATER SHOWS

Rev. Dr. Solomon Jackson, Jr. 4D Theater

The LEGO® Movie™ 4-D Experience®

Great Escapes: Life in 4D

The Wizard of Oz 4D Experience™ (opens 9/30)

BlueCross BlueShield of South Carolina Planetarium

From Earth to the Universe

Earth, Moon and Sun

Two Small Pieces of Glass and Sky Tour

Live Sky Tour

Sea Monsters: A Prehistoric Adventure – Ends Sept. 4

Boeing Observatory

Solar Viewing: Every Day – Weather permitting.

Night Sky Viewing: Every Tuesday until 10 p.m. – Weather permitting.

Current & Upcoming Exhibits

South Carolina and the Great War: Experience one of the world's most devastating wars and how it impacted life in South Carolina. Now Open

NEW! Eclipsing 50: This show highlights work collected over the last 50 years by the South Carolina Arts Commission. Discover art that transcends a particular time and place and the SC artists who broke through in the pursuit of artistic expression.

Opening September 15.

Closing Soon!

ART: A Collection of Collections: Discover South Carolina art and artists through the museum's permanent collection dating back to the 1590s. **Closes August 21.**

Savage Ancient Seas: Guests will be transported back 80 million years ago, when dinosaurs roamed the Earth. Explore a world of huge carnivorous marine reptiles, gigantic flesh-eating fish, flying reptiles and the largest sea turtles to have ever lived. **Closes September 4.**

VISIT SCMUSEUM.ORG FOR FULL SCHEDULE AND TICKETS



Many Thanks To Our Volunteers!

The South Carolina State Museum depends on dedicated, knowledgeable people who create excellent experiences for our guests. From April 2016 to April 2017, 209 museum volunteers donated 13,580 hours which equates to a donated value of \$306,229

31 YEARS OF SERVICE

Jack Meyer

29 YEARS OF SERVICE

Jeanne Craig
Jan Shackelford

28 YEARS OF SERVICE

Faye Hollingsworth

27 YEARS OF SERVICE

Lois Lockhart

22 YEARS OF SERVICE

Lucy Rabb

17 YEARS OF SERVICE

Monica Alexander
Mary Louise Robinson

16 YEARS OF SERVICE

Kathy Hart
Faye Miller
Nancy Nelson
Alan Shoemaker

15 YEARS OF SERVICE

Mary Counts
Gary Jones
Kathy Redner

14 YEARS OF SERVICE

Carroll Allen
R. Brooks Galloway

13 YEARS OF SERVICE

Ron Shelton

12 YEARS OF SERVICE

Bob Gilligan
Jan Gilligan

Frank Havird
Roy McCrorey
Henry Shaw, Jr.
Natalie Williams

11 YEARS OF SERVICE

Janet Ciegler
Jill Ferguson
Julia Hill
Bob Johansson
Douglas Steimle

10 YEARS OF SERVICE

Allene Buddin
Linda Griffith
Stonewall Hilton

9 YEARS OF SERVICE

Jackie Black
Bonnie Martin

8 YEARS OF SERVICE

Ruth Branham
Constance Glenn
Virginia Verne
James Verne

7 YEARS OF SERVICE

Diane Kuhn
Cynthia Nostrant
Dan Paysinger
Leone Wisialowski

6 YEARS OF SERVICE

Sharon Dantzer
Eleanor Davis
Alvan Parker
Nancy Turner
Nancy Ward
Stan Wszola

5 YEARS OF SERVICE

Gerald Coughenour
Karen Helland

Susan Jones
DC Locke

Hubert Glenn Robey, Jr.

4 YEARS OF SERVICE

Pamela Borawski
Jim Colwell
Matt Lane
Samuel McNutt

3 YEARS OF SERVICE

Arlene Andrews
Inez Baccus
Anne Baker
Timothy Bradshaw
Tom Bryan
Heidi Colwell
Morgan Dittmer
Nancy Kay Doolittle
Jack Dunn
Lisa Early
Charles Eskridge
Milly Hart
Perrine Hernandez
Richard Hernandez
Marie Kalinowski
William Leroy Kennedy
Peter Lauzon
Julie Lybrand
Pam Morris
Shelby Moyers
Dan Overcash
Shirley Pepper
Nettie Reaties
Barbara Rohrer
Donald Rozier
Irma Scott
Kevin Wallace

2 YEARS OF SERVICE

Randy Borawski
Cynthia Boyd
Frances Broom
Ben Cheney
Steve Foxworth
Adianez Gomez-Espada

Doreen Harvey
Stephanie Johnson
Frances Laska
Thomas McMurray
Pat Melton
Kolina Neumann
Julianna Nyikos
Henry Padgett
Laura Rohrer
Preston Smoak
Jim Stiles
Fred Stokes
Brien Washington
Ralph Webb, Jr.

1 YEAR OF SERVICE

Michelle Baker
Patricia Bernabei
James Boyce
Jim Boylston
Julie Cooper
Jennifer Curtis
Tom Gandy
Anthony Giunta
Drucie Gullion
Ivey Hart
Philip Hiers
Adam Kane
Gary Kelly
Sue Kelly
James Knight
Jasmine Lee
Carol Lewis
Lu Liu
Indira Longsdale
Karen Lowrimore
Danny McLane
Andrew Moss
John Mullin
Sophia Nine
Patricia Pairol
Gary Rish
Lauren Rowe
Sierra Smith
Sheila White

WELCOMING OUR NEW VOLUNTEERS

Garima Agarwal
Stacey Agran
Anne Ateca
Jasmine Binion
Vera Bozko-Summer
Amazia Brown
Elaine Chik
Buck Corley
Andrew Davis

Carol Drew-Peoples
Victoria Elmgren
Tyshaun Grant-Bennett
Clare Hearn
Diana Holmes
Priyanka Jayaram
Janet Jordan
Kazuho Kamada
Amelia Linder

Peter Najim
Matthew Nostrant
Shawn Patel
Steve Priester
Marji Pulliam
Linda Purnell
Ian Reagle
Davisha Robinson
Kendrick Robinson

James Rogers
Geraldine Rutland
Shirley Santillan
Tianhua Shao
Helese Smauldon
Betty Taylor
Andy Thomas
Gautham Tuppal
Joseph Turner

Linda Turner
Katherine Wallace
Cassie Ward
Isis Wells
Christina Williams

You Make It Happen!

MANY THANKS TO OUR COMMUNITY PARTNERS!

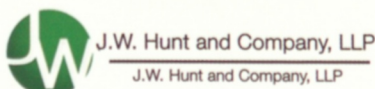
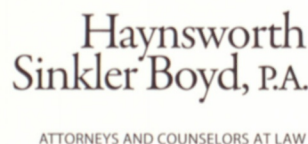
\$5,000 LEVEL



\$2,500 LEVEL



\$1,000 LEVEL



FOR INFORMATION ON HOW TO BECOME A COMMUNITY PARTNER, PLEASE CALL 803.898.4935

JUL 21 2017

STATE DOCUMENTS

NONPROFIT
ORG.
US POSTAGE
PAID
COLUMBIA, SC
PERMIT NO. 788



Smithsonian Affiliations



641 *****ECRLOT**C 077 46 1 0

S. C. State Documents
S.C. State Library
1500 Senate St
Columbia SC 29201-3815



**GRAB YOUR FRIENDS and
COME SEE the best
4D EXPERIENCE
this summer!**

**VISIT SCMUSEUM.ORG
FOR SCHEDULE AND
TICKETS**

**MUSEUM
HOURS**

Mon, Wed, Thur, Fri 10 am - 5 p.m. | Tues 10 a.m. - 10 p.m.
Sat 10 a.m. - 6 p.m. | Sun 12 - 5 p.m.
OPEN: State and federal holidays • **Closed:** Easter,
Thanksgiving, Christmas Eve and Christmas Day

 **SCSM**
SOUTH CAROLINA STATE MUSEUM
SCMUSEUM.ORG